NPSM241 Series

AC/DC Power Supplies Din Rail Mount 240W







Main Features

-) High efficiency and extremely compact size
- / Only 40mm width aluminum enclosure
-) Active PFC
-) Overload 150%
-) Constant current or hiccup mode limitation, user settable
-) Wide range of output voltage
- J Easy parallelable for power increase
- / Up to 70°C operating temperature with no derating

NPSM241 Series

TECHNICAL DATA

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TECHNICAL DATA Model type	NPSM241-12 (P)	NPSM241-24 (P)	NPSM241-36 (P)	NPSM241-48P	NPSM241-72P	
OUTPUT DATA						
Rated voltage	12Vdc	24Vdc	36Vdc	48Vdc	72Vdc	
Adj. output voltage range	1215Vdc	2229Vdc	3240Vdc	4555Vdc	7085Vdc	
Continuous current	15A	10A	7.0A	5.0A	3.3A	
Overload limit in constant current mode	17A	11A	7.5A	7.0A	4.0A	
Overload limit in hiccup mode (max. 5s)	20A	15A	10A	8.5A	5.5A	
Load regulation	≤ 2%	< 200m)/nn	≤ 1			
Ripple & Noise ¹	≤ 160mVpp	≤ 260mVpp	≤ 300mVpp	≤ 400mVpp	≤ 550mVpp	
Hold up time	≥ 25ms	≥ 20ms	≥ 15ms	≥ 20ms	≥ 15ms	
Protections	 Overload, short circuit: Constant current or Hiccup mode (user settable) Thermal protection Input undervoltage lockout Output overvoltage 					
Output overvoltage protection	≥ 18Vdc	≥ 33Vdc	≥ 51Vdc	≥ 68Vdc	≥ 100Vdc	
Status Signals	DC OK - green LED OVERLOAD - red LED DC OK - dry contact (NO, 24Vdc / 1A)					
Parallel connection ²	 Possible for power or redundancy (with external ORing module) P (models) - include internal ORing circuit 					
INPUT DATA						
nput AC rated voltage Frequency	Nominal: 120240Vac (UL certified) Range: 90264Vac 4763Hz					
Input DC rated voltage	110345Vdc					
Input AC rated current Vin = 120Vac Vin = 240Vac		4A 2A	3.0A 1.5A	2.4A 1.2A		
Input DC rated current			2.5/1	1.		
Vin = 110Vdc	2.5A	2.6A	2.5A	2	6A	
/in = 345Vdc	1.2A	0.9A	1.2A		9A	
Power factor correction			Active / > 0.9	0.		
			≤ 50A			
nrush peak current	+					
Fouch (leakage) current			≤ 0.6mA			
Internal protection fuse	Fuse 6.3AT (not user replaceable)					
Recommended external protection	Fuse 10AT or MCB 10A C curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.					
GENERAL DATA Efficiency	> 90%	> 93%	> 93%	< 0:	3.5%	
Dissipated power	< 25W	< 19W	< 19W		7W	
Operating temperature ³			- 40°C+ 70°C UL certified up to 70°C			
Derating	No derating					
Storage temperature	- 40°C+ 80°C					
Humidity						
numuny						
life time expectation		221/2004	595% r.H. non condensing			
•						
Overvoltage category	EN50178 EC60664-1	Ш	595% r.H. non condensing			
Overvoltage category Pollution degree	 IEC60664-1 	 2	595% r.H. non condensing			
Dvervoltage category Pollution degree Protection Class		Ш	595% r.H. non condensing (25.2 years) at 25°C ambien			
Overvoltage category Pollution degree Protection Class nput / output isolation	 IEC60664-1 	 2	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc			
Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation	 IEC60664-1 	 2	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc 2.2kVdc			
Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation	 IEC60664-1 	 2	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc			
Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation	 IEC60664-1 	 2	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc 2.2kVdc 0.75kVdc			
Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards ⁴	IEC60664-1 CLASS UL508 EN60950	III 2 I (certified E3565 (reference) (reference) R11) Class B	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc 2.2kVdc 0.75kVdc			
Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards ⁴ EMC Emission	IEC60664-1 CLASS UL508 EN60950 EN50178 EN55011 (CISPF EN55022 (CISPF	III 2 I (certified E3565 (reference) (reference) (reference) 811) Class B 822) Class B	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc 2.2kVdc 0.75kVdc			
Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards ⁴ EMC Emission EMC Immunity	 IEC60664-1 CLASS UL508 EN60950 EN50178 EN55012 (CISPF EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-11 	III 2 I I (certified E3565 (reference) (reference) (reference) R11) Class B R22) Class B Class A Level 3 Level 3 Level 4 Level 4 Level 2	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc 2.2kVdc 0.75kVdc			
Life time expectation Overvoltage category Pollution degree Protection Class Input / output isolation Input / ground isolation Output / ground isolation Safety Standards ⁴ EMC Emission EMC Immunity Protection degree Vibration sinuosoidal	 IEC60664-1 CLASS UL508 EN60950 EN50178 EN55012 (CISPF EN61000-3-2 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN61000-4-11 	III 2 I I (certified E3565 (reference) (reference) (reference) R11) Class B R22) Class B Class A Level 3 Level 3 Level 3 Level 4 Level 4 Level 2 IP20	595% r.H. non condensing (25.2 years) at 25°C ambien 4.2kVdc 2.2kVdc 0.75kVdc	t full load		



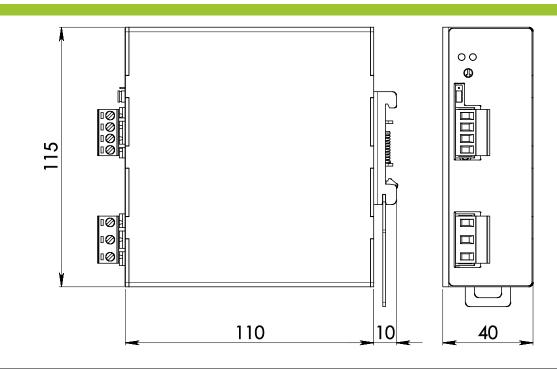
NPSM241 Series

SNAPTEC. www.snaptec.com.au

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Connection terminals	2.5mm ² , screw type pluggable (2412AWG)		
Case material	Aluminum		
Weight	0.60kg		
Size (W x H x D)	40.0 x 115.0 x 110.0mm		
 Start-up type tested: - 40°C, possible at nomir NPSM241-36 (P) is not UL508 certified. 	al voltage with load deration.		
Notes: - Technical parameters are typical, measured in I	aboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation. behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.		

DIMENSIONS



CONNECTION

